SACOM Overview:

SACOM is a full conference or stage digital wireless microphone system with the following attributes:

1. SACOM is a 24-bit digital system.

2. No compander so it sounds like a wired mic. Sounds like a wire for guitars and basses too.

3. Latency is 2.8 mS digital out or 3.8 analog out. Analog and digital out operate simultaneously in parallel.

4. Operate 16 simultaneous channels in a room with a flat 20 -20 KHz frequency response or 32 simultaneous channels at 20 -12KHz frequency response. Clients cannot hear the difference in a conference room setting. There is a "white paper" about this on www.SacomUSA.com.

5. You can repeat the same 32-channles every 25 or so meters within a building. Output power can be selected for 1, 10, 25, or 50 mW. 25mW provides a range of 100 meters line-of-sight.

6. SACOM will be introducing a version with digital compression that supports over 100 simultaneous users in the 2nd qtr.

7. The RF signal is encrypted using the FIPS 197, NSA approved, algorithm. This RF system is as secure as wire. There is a "white paper" at www.SacomUSA.com about encryption. The main advantage of RF as opposed to wire (or IR, for that matter) is that conference room can have a flexible configuration.

8. Expanding on being flexible, SACOM provides a ¼" balanced mixed audio output on the front panel. The 1-U receiver and a speaker-on-a-stick is all that is required for an impromptu meeting with 8 wireless microphones.

9. The 1-U receiver chassis holds up to 8 receiver modules. The system has a built-in antenna distribution amp so up to eight (8) chassis (or 64-channels) can be daisy-chained together and operate with a single pair of extension antennas. The antenna run can be up to 75 feet with RG58 or about 200 feet with RG8.

10. The system includes free software. It controls all aspects of the system via USB, RS232 or Ethernet. Each receiver has its own MAC address and programmable IP address, so you can daisy-chain I/P control without the expense of a hub.

11. The software provides a way to assign any two adjacent channels as a redundant pair (pilot and copilot). If anything happens to the "pilot" (say there is an RF hit or a battery dies) the "copilot" takes over instantly without any audible hit or disruption.

12. The system has up to 25 pins of GPIO contact closures. The gooseneck and boundary mic buttons can be programmed to cause an audio mute or a logic mute. The logic mute toggles the GPIO. This allows the automated mixer can monitor the ambient room noise level when mics are muted. GPIO can also be used to mute all mics simultaneously for a sidebar.

13. SACOM operates in the 902-928 MHz ISM band in North and South American and some Pacific-rim countries. This band is limited to low-powered devices, so there are no TV stations or cell phones. Other frequencies are typically used in other countries.

14. SACOM is a pre-engineered solution. Their engineers provide free antenna system design for your project and set up the parameters so the equipment arrives at the jobsite ready for plug-n-play. However, the free software makes any necessary modifications quick and easy.

15. SACOM is not sold on the internet or local distributors. It is only sold through a network of systems integrators and contractors that manage a competent installation crew.

16. The system is built around NiMH batteries but it will run on alkaline. A free docking station is included with each receiver. You can also power the transmitters using a mini-USB cell phone changer or power from the USB port on a computer.

17. SACOM costs about the same as Revo and typically less than ULXD.

18. SACOM is Made in the USA.

19. Contact CustomerService@SacomUSA.com to for more information and to set up a demo.

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